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Control of Flying Missiles, by G. Ernest, M. Kramer

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PREPARING FOR THE <sup>S</sup>PRING FISHING CAMPAIGN,  
BY OTTO ERNEST, 6 PP.

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JPRS 14092

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and Wool Yarns, by J. Ernestus.  
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NTC-71-10372-11E  
*CS.FRC/20.7657*

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pp 1203-1208  
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SPACE - MAIL - TECHNOLOGY, BY NAGY ERNO, 10 PP.

HUNGARIAN, PER, TECHNIKA, NO 5/5, 1962, 4 PP.

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Turbine Boring Device, by KOTACE, V. BORO, Jan.  
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Arrangement for Humidification of Powdery,  
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Werner, Ernst, Paul Eppenberger, 9 pp.

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Anomalous Magnetic Moments of Nucleons in the  
Chew Method, by Yu. M. Lomada, V. I. Land'gol,  
B. M. Ernst, 3 pp.

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No 5 (11), 1959, pp 1342-1345.

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BY E. ERNST, 12 PP.

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Ernst, E.  
THE SURFACE TREATMENT OF PLAIN AND  
REINFORCED CONCRETE STRUCTURES. [1961]

[19]p.

Order from SLA \$1.60

61-18940

Trans. from mono. Oberflächenbehandlung  
Unverkleideter Beton- und Stahlbetonbauten, Berlin,  
1949.

DESCRIPTORS: \*Concrete, \*Reinforced concrete,  
\*Structures, Germany, Construction, Bridges,  
\*Finishes, Surface properties.

(Engineering--Civil, TT, v 6, no. 10)

61-18940

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Office of Technical Services

The Mechanism of Autoxydation of Organometallic  
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545.

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63-14278

I. Ernst, H.

A347493

Office of Technical Services

Ernst, H.  
CONCERNING THE TESTING OF DIESEL FUELS.  
[1963] (23)p. (3 figs. omitted) 15 refs.  
Order from SLA \$2.60 63-14278

Trans. of [ATZ] Automobiltechnische Zeitschrift  
(Germany) 1939, v. 42, no. 8, p. 213-221.

DESCRIPTORS: \*Fuel oil, Diesel engines, Test  
methods, Combustion, Ignition lag, Antiknock.

The basic considerations governing a choice of possible  
test methods for diesel fuels are discussed. In evalu-  
ating the fuels by engine tests, the processes with  
variable compression and with variable ignition lag  
were used.

Materials--Fuels, TT, v. 10, no. 7)

Crane Installations of Low Dead Weight Made  
Safe in Operation by Appropriate Design, by  
H. Ernst.

GERMAN, per, Stahl und Eisen, Vol LXXXI, Nov 1961,  
pp 1665-1672.

BISI 3127

Sc1 - Engr  
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475 Tonne Ladle Handling Crane of New Design and  
Low Weight, by H. Ernst.

GERMAN, per, Stahl und Eisen, Vol LXXXII,  
26 Apr 1962, pp 513-517.

BISI 2991

Sci - Engr

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TT-65-14998

Field 13C, 14B, 13M

Ernst, H.-J., Feder, D.  
STRUCTURAL DESIGN AND MODEL TESTS OF AN  
UNUSUAL PRESTRESSED CONCRETE CROSS-SECTION.  
THE 'JAN WILLEM PLATZ' VIADUCT IN DUESSELDORF.  
PT. 1-II. 15p (figs 1: 4 (rotated) 7 refs.  
Order from SLA: \$1.6) as TT-65-14998

Trans. of Inst. Bauingenieur (West Germany) v37 n11  
p401-E 1962.

MR 699



Ernst, H. and Widmaier, O.  
UNIFORM TEST PROCEDURE FOR DIESEL AND  
OTTO FUELS ON THE BASIS OF IGNITION LAG  
MEASUREMENTS. 11 Apr 49 [9]p. (figs. omitted)  
11 refs.  
Order from SLA \$1.10

63-14279

Trans. of German language article from unidentified  
source, n.d.

DESCRIPTORS: Fuel oil, Ignition lag, Test methods,  
Knocking, Combustion, Analysis, Autoignition,  
Diesel engines.

According to our present information a relation exists  
between ignition tendency and the knock rating of a fuel,  
in that the knock rating decreases with rise in ignition  
tendency and vice versa. This relationship makes it  
possible to develop, on the basis of ignition lag mea-  
surements, a single uniform test procedure for diesel  
and otto fuels. (Author)

63-14279

I. Ernst, H.  
II. Widmaier, O.

(Materials--Fuels, TT,  
v. 10, no. 3)

Office of Technical Services

Ernst, H[ans] and Gross, W.  
ENGINE METHOD FOR THE TESTING OF DIESEL  
FUELS [1963] 15p. (figs. omitted) 11 refs.  
Order from SLA \$1.60

63-14269

Trans. of German language article from unidentified  
source, n.d.

DESCRIPTORS: \*Fuel oil, \*Ignition lag, Test methods,  
\*Diesel engines, Measurement.

In order to explain the influence of the various oper-  
ating conditions upon the ignition delay, studies were  
carried out by means of a specially developed method  
of measurement. Test of a fuel by this process  
evaluates the fuel in terms of its ignition delay. (Author)

(Materials--Fuels, FT, v. 10, no. 3)

63-14269

I Ernst, H.  
II. Gross, W.

Office of Technical Services

63-14276

Ernst, Hans].  
IGNITION LAG MEASUREMENT AND FUEL EVAL-  
UATION. 17 June 48, 6p. (figs. omitted).  
Order from SLA \$1.10

63-14276

I. Ernst, H.

Trans. of German language article from unidentified  
source, n.d.

DESCRIPTORS: \*Ignition lag, \*Fuel oil, Measurement,  
Test methods, Combustion, Knocking, Combustion  
chamber gases, Internal combustion engines.

(Materials--Fuels, TT, v. 10, no. 3)

Office of Technical Services

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Ernst, Hans.

IGNITION DELAY AND EVALUATION OF FUELS:  
BASIS FOR THE DEVELOPMENT OF A UNIFORM  
TEST METHOD FOR DIESEL AND OTTO FUELS  
[Zündverzug und Bewertung des Kraftstoffs: Grundlagen  
zur Entwicklung eines Einheitlichen Prüfverfahrens für  
Diesel- und Ottokraftstoffe]. 26 Jun 47, 32p. (figs.  
omitted) 26 refs.

Order from OTS or SIA \$3.60

63-10993

Trans. of [Deutsche Kraftfahrtforschung (Germany)]  
1941, no. 63, p. 1-20 (PB-34469).

DESCRIPTORS: \*Fuels, \*Ignition lag, Test methods,  
Fuel oil, Diesel engines, Combustion, Combustion  
chamber gases, Pressure, Temperature, Antiknock.

The behavior of fuels upon transformation in the Diesel  
engine is at the present time generally evaluated by  
(Materials--Fuels, TT, v. 10, no. 3) (over)

- I. Ernst, H.
- II. Title: Basis ...
- III. PB-34 469

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Observations on the Action of Dilute Hydro-  
fluoric Acid on Glass Surfaces, by Boneff,  
Stoyan, Schwiete, Hans Ernst, 25 pp.

GERMAN, per, Glastechnische Berichte, 1956,  
Vol XXIX, No 4, pp 120-128.

SLA 59-10616

Sci - Chem  
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New Adhesive Product and Support Material  
Coated & or Impregnated With This Product,  
by Marc Henri Marie Joseph Ernst, 9 pp.

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JPRS 15252

Sci - Engr  
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Precipitation Hardening of Iron-Chromium-  
Molybdenum and Iron-Chromium-Tungsten Alloys,  
by Erich Schall, Klaus Bischoff, Hermann Ernst  
Schulz. 6 p.

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Vol VII, No 11, pp 637-640.

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Ernst, Paul.

A CORNIFYING PAVEMENT-EPITHELIAL CANCER  
OF THE BRONCHUS: METAPLASIA OR ABERRATION?  
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p. 155-178.

DESCRIPTORS: Cancer, Lungs, Epithelium, Tissues  
(Biology), Pathology.

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- II. K-H-3344-a
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Library Associates,  
Detroit, Mich.

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I. Ernst, R.

Ernst, Rudolf.  
MECHANISM OF HEAT TRANSFER ON HEAT  
EXCHANGERS IN A FLUIDIZED BED (TURBULENT  
FLOW) (Der Mechanismus des Wärmeüberganges an  
Wärmeaustauschern in Fließbetten (Wirbelschichten)).  
[1961] 32 p. (15 figs. omitted) 19 refs.  
Order from SLA \$3.60

61-20483

Trans. of Chemie Ingenieur Technik (West  
Germany) 1959, v. 31, no. 3, p. 166-173.

DESCRIPTORS: \*Fluidized solids, \*Heat transfer,  
Turbulent flow, \*Heat exchangers, Gases, Pressure.

The connection between heat transfer and movement of  
solid particles was investigated for a fluidized bed and  
a moving bed. The mechanism of heat transfer in  
fluidized beds is this: The contact time of solid  
particles on a heated surface determines the heat  
(Engineering--Chemical, TT, v. 7, no. 1) (over)

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Mechanism of Heat Transfer on Heat Exchangers in  
a Fluidized Bed (Turbulent Flow), by Rudolf Ernst:  
"Der Mechanismus des Wärmeüberganges an  
Wärmeaustauschern in Fließbetten (Wirbelschichten)".  
31 pp.

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A New-Optical Method for the Determination of  
Non-metallic Inclusions in Steel, by T. Ernst,  
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BISI 1752

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Detection of Resins on White KKKZ Fabrics,  
by W. Ernst, M. Sorkin.

GERMAN, per, Textil-Rundschau, Vol XV,  
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Ernst, W. and Sorkin, M.  
TESTING OF BACTERIOSTATIC FABRICS. [1961]

7p.

Order from ATS \$13.35

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no. 5, p. 233-238.

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1. Textiles-- Test methods
2. Title: Bacteriostatic fabrics

- I. Ernst, W.
- II. Sorkin, M.
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The Washfastness of Resin Finishes, by M. Sorkin,  
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ARRANGEMENT FOR HUMIDIFICATION OF POWDERY,  
GRANULOUS AND FLOCCULENT MATERIALS.  
[1963] [9]p.

Order from OTS or SLA \$1.10

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Trans. of Swiss patent 274,225, cl. 34d, pub. 1 Aug 51,  
appl. 23 Apr 51, registered 31 Mar 51.

Another trans. is available from LC or SLA m/\$1.80,  
ph/\$1.80 as 60-16889 [1960] [9]p.

DESCRIPTORS: Materials, \*Moisture, \*Powders,  
Particle size, Water supplies, Control systems.

For abstract see Technical Translations 4: 467, 1960.

(Materials, TT, v. 10, no. 7)

63-16329

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- II. Eppenberger, P.
- III. Patent (Switzerland) 274 225

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Calculation of the Sound Field of an Airscrew,  
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The Rotating Wing as a Radiation Problem,  
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STANDARD OF ACCURACY FOR CYLINDRICAL WHEELS, BY  
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The Energy Spectrum of an Ion Beam From a High  
Frequency Source, by J. ~~Sam~~ Kro, UNCLASSIFIED  
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Janos Ercs, 4 pp.

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pp 235, 236.

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Production of Wool Fabrics ~~Ma~~ Using Different Cloth  
Take-Up Motions, by M. D. Brofejsw.

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pp 1011-1014.

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Catalytic Isomerization of Cyclopropane in Mix-  
tures with Olefins, by N. I. Ershov, V. R. Erokhina,  
Ya. T. Eklus, 5 pp

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Temperature Dependence of the Photoconductivity and  
Lifetime in PbS Films at  $10^{10}$  cps, by V. G.  
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Compensation Effect of  $n$  and  $K$  in Topokinetic  
Reactions, by B. V. Erofeev, V. A. Protashchik,  
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pp 647-650.

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An Experimental Method for Dehydrogenating Isopropyl  
Alcohol over a Catalyst in a Suspended Bed. by B. V.  
Erofeev, R. I. Bal'skaya, 5 pp.

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The Effects of  $CO^{60}$  on the Rate of Decomposition of  
Cobalt Formate, by B. V. Erofeyev, V. A. Protashchik,  
14 pp.

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Concomitant Decarboxylation During Autoxidation  
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Acids, II by N. R. Mitskevich, T. I. Soroko  
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N. M. Erofeev, G. G. Dzhamilev, V. P. Ierelygin,  
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RUSSIAN, rpt, Pervye Rezul'taty Radiotekhnich-  
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Structure of the family of symmetrical hysteresis loops  
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The Susceptibility of Bacterial Substrates  
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Temperature Dependence of Conductivity of Lead  
Sulphide Layers at  $10^{10}$  CPS, by V. G. Erofeichev,  
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Absorption Spectrum of 1,3-Cyclohexadiene in the  
220-300  $m\mu$  Region, by B. F. Erofeyev, N. P.  
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On the Organization of Teaching of Roentgenology and Radiology, by B. H. Erofeev, et al

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The Effect of  $CO^{60}$  on the Decomposition Rate of  
Cobalt Formate, by B. V. Erofeyev, V. A. Drotashchik.

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Role of the Phase Transformation  $\text{NH}_4\text{NO}_3$  (IV)  $\rightleftharpoons$   
 $\text{NH}_4\text{NO}_3$  (III) in the Caking of Ammonium Nitrate, by  
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Mechanism of the Initiation of Autoxidation of  
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**1. The General Character of the Kinetics of the Transformation of Modification IV to Modification III., by B. V. Erofeyev, N. I. Mitkevich, 19 pp.**

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Transformation of  $\text{NH}_4\text{NO}_3(\text{III}) \rightleftharpoons \text{NH}_4\text{NO}_3(\text{II})$ ,  
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